

### Abstract of the Disclosure

Methods are described for conjugating radioiodinated peptides to non-metabolizable carbohydrates with improved yields and qualities of conjugates. Radioiodinated residualizing antibody conjugates comprising a carbohydrate-appended peptide are also provided. The instant radioiodinated residualizing antibody conjugates are particularly stable *in vivo* and are suitable for radioimmunodetection and radioimmunotherapy.